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This index covers all technical items - papers, correspondence, reviews, etc. - that appeared in this periodical during 1995, and items from previous years that were commented upon or corrected in 1995.

The Author Index contains the primary entry for each item, listed under the first author's name, and cross-references from all coauthors. The Subject Index contains several entries for each item under appropriate subject headings, and subject cross-references.

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 deductive databases, chain-split eval. *Jaiwei Han, T-KDE Apr 95 261-273*
Program processors; cf. Program compilers
Protocols; cf. Memory protocols

Q

Quality assurance
 organizational databases, data quality research anal. *Wang, R.Y., +, T-KDE Aug 95 623-640*
Query languages
 Atlas, nested relational database syst. for text appls. *Sacks-Davis, R., +, T-KDE Jun 95 454-470*
 Datalog programs, data partition and parallel eval. *Weining Zhang, +, T-KDE Feb 95 163-176*
 G-Log, graph-based query lang. *Paredaens, J., +, T-KDE Jun 95 436-453*
 hypernode model, graph based data model and ramifications. *Levene, M., +, T-KDE Oct 95 809-823*
 probabilistic knowledge bases. *Wuthrich, B., T-KDE Oct 95 691-698*
 recursive logic programs lin. *Guessarian, I., +, T-KDE Feb 95 137-149*
 temporal and real-time database survey. *Ozsoyoglu, G., +, T-KDE Aug 95 513-532*

R

Rational functions
 recursive logic programs lin. *Guessarian, I., +, T-KDE Feb 95 137-149*
Real time systems
 CASE-DB, time-constrained query proc. *Ozsoyoglu, G., +, T-KDE Dec 95 865-884*
 deadline and contingency constraints in real-time DBMS. *Soparkar, N., +, T-KDE Aug 95 552-565*
 multiclass query scheduling in real-time database systs. *HweeHwa Pang, +, T-KDE Aug 95 533-551*
 reliab. of AI planning software in real-time appls. *Ing-Ray Chen, +, T-KDE Feb 95 4-13*
 response time anal. of EQL real-time rule-based systs. *Jeng-Rung Chen, +, T-KDE Feb 95 26-43*
 temporal and real-time database survey. *Ozsoyoglu, G., +, T-KDE Aug 95 513-532*
 temporal consistency maint., pessimistic/optimistic concurrency control. *Xiaohui Song, +, T-KDE Oct 95 786-796*
Reasoning; cf. Cognitive science; Inference mechanisms
Recurrent neural networks
 explicit knowledge and learning by example, unified integrat. *Frasconi, P., +, T-KDE Apr 95 340-346*

Relational algebra

- deductive databases, extended rules, recursive query eval. *Sang Ho Lee*, +, *T-KDE Apr 95* 328-331
 integrity constraints in inform. source tracking method. *Sadri, F.*, *T-KDE Feb 95* 106-119
 time-varying query expressions, incremental computation. *Baekgaard, L.*, +, *T-KDE Aug 95* 583-590

Relational databases

- Atlas, nested relational database syst. for text appls. *Sacks-Davis, R.*, +, *T-KDE Jun 95* 454-470
 CASE-DB, time-constrained query proc. *Ozsoyoglu, G.*, +, *T-KDE Dec 95* 865-884
 combinat. optim. of distributed queries. *Groselj, B.*, +, *T-KDE Dec 95* 915-927
 domains and act. domains, projection size estim. *Ciaccia, P.*, +, *T-KDE Aug 95* 641-655
 exclusive disjunctive databases, query answer interp./reduction. *Chiu, J.-S.*, +, *T-KDE Dec 95* 928-940
 intelligent database syst. join pattern indexing. *Segev, A.*, +, *T-KDE Dec 95* 941-947
 multicomputer database systs. dyn. load balancing using partition tuning. *Hua, K.A.*, +, *T-KDE Dec 95* 968-984
 phys. database design, exact/approx. index selection algms. *Caparara, A.*, +, *T-KDE Dec 95* 955-967
 query clustering using set partitioning. *Gopal, R.D.*, +, *T-KDE Dec 95* 885-899
 query optim. in parallel join execution. *Lee, C.*, +, *T-KDE Dec 95* 900-914
 query translation to hierarchical queries, theory. *Weiyi Meng*, +, *T-KDE Apr 95* 228-245

Reliability

- dependability of AI systems (special section). *T-KDE Feb 95* 1-67

Reliability; cf. Database reliability; Software reliability

Resource management

- multiclass query scheduling in real-time database systs. *HweeHwa Pang*, +, *T-KDE Aug 95* 533-551
 sort merge algm. for band joins. *Hongjun Lu*, +, *T-KDE Jun 95* 508-510

S**Scheduling**

- genetics based heuristics learning, rational expt. scheduling. *Wah, B.W.*, +, *T-KDE Oct 95* 763-785
 temporal consistency maint., pessimistic/optimistic concurrency control. *Xiaohui Song*, +, *T-KDE Oct 95* 786-796

Search methods

- conceptual graph compilation. *Ellis, G.*, *T-KDE Feb 95* 68-81
 genetics based heuristics learning, rational expt. scheduling. *Wah, B.W.*, +, *T-KDE Oct 95* 763-785
 pattern matching, 2D, efficient algm. design. *Jang-Jong Fan*, +, *T-KDE Apr 95* 318-327

Search methods; cf. Database searching; Genetic algorithms

Security; cf. Data security

Semiconductor device testing; cf. Integrated circuit testing

Simulation; cf. Circuit simulation

Software; cf. Computer languages; Database management systems

Software debugging

- AI planning systs. reliab. via failure recovery anal. *Howe, A.E.*, *T-KDE Feb 95* 14-25

Software design/development; cf. Parallel programming; Software requirements and specifications; Software verification and validation

Software engineering; cf. Computer aided software engineering

Software fault tolerance

- AI planning systs. reliab. via failure recovery anal. *Howe, A.E.*, *T-KDE Feb 95* 14-25

Software maintenance

- meta-level control archit. for prod. systs. *Ishida, T.*, +, *T-KDE Feb 95* 44-52

Software performance

- checkpointing for optimistic concurrency control methods. *Thomasian, A.*, *T-KDE Apr 95* 332-339
 multiple hash join queries, pipelining applying segmented right-deep trees. *Ming-Syan Chen*, +, *T-KDE Aug 95* 656-668

- temporal consistency maint., pessimistic/optimistic concurrency control. *Xiaohui Song*, +, *T-KDE Oct 95* 786-796

Software quality; cf. Software verification and validation

Software reliability

- AI planning software in real-time appls., reliab. *Ing-Ray Chen*, +, *T-KDE Feb 95* 4-13
 AI planning systs. reliab. via failure recovery anal. *Howe, A.E.*, +, *T-KDE Feb 95* 14-25

- KBS, reliab. estim., prototyping. *Brown, D.E.*, +, *T-KDE Jun 95* 37-47

Software reliability; cf. Software debugging; Software fault tolerance; Software verification and validation

Software requirements and specifications

- obj. spec. lang., develop. environ. *Gogolla, M.*, +, *T-KDE Jun 95* 50-60
 temporal triggers in act. databases. *Sistla, A.P.*, +, *T-KDE Jun 95* 47-57

Software verification and validation

- partitioned sync. rule for planar extendible partial orders. *Ammann, M.*, +, *T-KDE Oct 95* 797-808
 response time anal. of EQL real-time rule-based systs. *Jeng-Rung Chen*, +, *T-KDE Feb 95* 26-43

Sorting/merging

- band join algm., sort merge based. *Hongjun Lu*, +, *T-KDE Jun 95* 508-510
 grid files, bal./nested, optimized sort order query execution. *Mueck, R.*, +, *T-KDE Apr 95* 246-260
 sort merge algm. for band joins. *Hongjun Lu*, +, *T-KDE Jun 95* 508-510

Special issues/sections

- dependability of AI systems (special section). *T-KDE Feb 95* 1-67
 query processing (special section). *T-KDE Dec 95* 850-954
 temporal and real-time databases (special section). *T-KDE Aug 95* 51-60

Specification languages

- obj. spec. lang., develop. environ. *Gogolla, M.*, +, *T-KDE Jun 95* 50-60

Speech recognition

- recurrent neural nets, explicit knowledge and learning by example, unification. *Frasconi, P.*, +, *T-KDE Apr 95* 340-346

Statistics

- quantitat. models, constr., monotone rels. *Hellerstein, J.L.*, *T-KDE Dec 95* 294-304

Subroutines; cf. Algorithms

Supervisory programs; cf. Operating systems

System reliability; cf. Reliability

System software; cf. Operating systems; Program processors

T**Text processing**

- knowledge based inform. extraction, linguistic pattern acquisition. *Tae Kim*, +, *T-KDE Oct 95* 713-724

Text recognition

- linguistic pattern acquisition for knowledge based inform. extraction. *Jun-Tae Kim*, +, *T-KDE Oct 95* 713-724
 pattern matching, 2D, efficient algm. design. *Jang-Jong Fan*, +, *T-KDE Apr 95* 318-327

Trees (graphs)

- partitioned sync. rule for planar extendible partial orders. *Ammann, M.*, +, *T-KDE Oct 95* 797-808

U**Uncertainty**

- inform. source tracking efficiency issues. *Sadri, F.*, *T-KDE Dec 95* 954
 integrity constraints in inform. source tracking method. *Sadri, F.*, *T-KDE Feb 95* 106-119
 knowledge acquisition, automated, uncertainty and complexity. *X.-J.M.*, +, *T-KDE Oct 95* 699-712
 vague domains, knowledge structuring. *Sun, R.*, *T-KDE Feb 95* 120-130

User interfaces; cf. Graphical user interfaces; Natural language interfaces

W

Word processing; cf. Text processing

Word recognition; cf. Speech recognition; Text recognition

